



# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
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No. 14] NEW DELHI, SATURDAY, APRIL 2, 1994 (CHAITRA 12, 1916)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएँ और नोटिस  
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Calcutta, the 2nd April 1994

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1—7 GI/94

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Telegraphic address "PATENTOFIS".

Patent Office, (Head Office),  
"NIZAM PALACE", 2nd M.S.O.  
Building, 5th, 6th and 7th  
Floor, 234/4, Acharya Jagadish  
Rose Road, Calcutta-700 020.

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## पेटेंट कार्यालय

एकत्र तथा अभिकल्प

कलकत्ता, दिनांक 2 अप्रैल 1994

पेटेंट कार्यालय के कार्यालय के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में अवस्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोपी इस्टेट,  
मीमाग तल, लोडर परगना (पश्चिम),

पेटेंट-400013 ।

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य  
क्षेत्र एवं संघ शासित क्षेत्र गोवा, दमन तथा  
दीप एवं दादरा और नगर हवेली ।

सार पता—“पेटेंटॉफिस”

पेटेंट कार्यालय शाखा,

फरफ सें 401 से 405, तीसरा तल,

नगर निधिका बाजार भवन,

रजिस्ट्री मार्ग, करोल बाग,

नई दिल्ली-110005 ।

गिरगाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर,  
पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों  
एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली ।

सार पता—“पेटेंटॉफिस”

पेटेंट कार्यालय शाखा,

61, बालाशाह रोड,

मद्रास-600002 ।

शास्त्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य  
क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप,  
मिन्निकाय तथा एमिनिदिदि द्वीप ।

सार पता—“पेटेंटॉफिस”

पेटेंट कार्यालय (प्रधान कार्यालय),

निजाम पैलेस, द्वितीय बहुरलीय कार्यालय,

भवन 5, 6 तथा 7वां तल,

234/4, आचार्य जगदीश बोस रोड,

कलकत्ता-700020 ।

भारत का अवशेष क्षेत्र ।

सार पता—“पेटेंटॉफिस”

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपे-  
क्षित सभी आवेदन-पत्र, सच्चाप, निश्चरण या अन्य प्रलेख पेटेंट  
कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे ।

शब्द :—शुल्कों की अदायगी या तो नगद की जाएगी अथवा  
उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश अथवा  
टाक आदेश या जहां उपयुक्त कार्यालय अस्थित है; उस स्थान  
के उपस्थित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट  
अथवा बैंक द्वारा की जा सकती है ।

APPLICATION FOR PATENT FILED AT THE HEAD  
OFFICE AT 234/4, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-20

The dates shown in the crescent branch are the dates  
claimed under section 135, of the Patent Act, 1970.

09th February 1994

82/Cal/94. Spectrum information technologies, Inc. Methods  
and apparatus for controlling a Radiotelephone  
system based on voice/data signal discrimination.

83/Cal/94. Rietel Automatik GmbH. Lockable outlet nozzle  
for thermoplastic synthetic materials.

84/Cal/94. Schneider Elektronik Rundfunkwerk gmbH. Tele-  
vision Projection system.

10th February 1994

85/Cal/94. Dr Viav Kumar Mishra. Dynamic compression  
nail and kit comprising the nail and fixing and  
extraction devices

86/Cal/94. Phillips petroleum company. Process for produc-  
ing solid organo aluminosy compounds useful in  
polymerization catalysts

87/Cal/94. Meshe Telani. Protective sheeting for rein-  
forced concrete elements.

88/Cal/94. Battery technologies inc. Manganese dioxide  
positive electrode for rechargeable cells, and cells  
containing the same.

11th February 1994

89/Cal/94. Piatey Lal Chopra. Device for securely storing  
rifles and like weapons.

APPLICATION FOR THE PATENT FILED AT THE  
PATENT OFFICE BRANCH, MUNICIPAL MARKET  
BUILDING, THIRD FLOOR, KAROL BAGH,  
NEW DELHI-110005

30-11-93

1336/Del/93. Gulf States Utilities Company, "Nuclear Re-  
actor Locking Piston Drive System and Valve  
Assembly".

1337/Del/93. The Procter & Gamble Company, "Cleaning  
with Low-Sudsing Mixed Polyhydroxy Fatty Acid  
Amide Monionic/Anionic Surfactants".

1338/Del/93. The Procter & Gamble Company, "Detergent  
Compositions with Calcium Ions and Polyhydro-  
xy Fatty Acid Amide Monionic/Selected Anionic/  
Soap Surfactant Mixture".

1339/Del/93. The Procter & Gamble Company, "Low Sud-  
sing Polyhydroxy Fatty Acid Amide Detergents".

1340/Del/93. The Procter & Gamble Company, "Detergent  
Compositions with mixed polyhydroxy fatty acid  
Amide/Sulfated Amide/Soap Surfactant system".

1341/Del/93. The Procter & Gamble Company, "High Sud-  
sing detergent compositions with specially selected  
soaps".

1342/Del/93. The Procter & Gamble Company, "Synthesis  
of Sulfated Polyhydroxy Fatty Acid Amide Surfac-  
tants".

1343/Del/93. The Procter & Gamble Company, "Method of  
production of extruded cereal Grain-based Food  
products having improved qualities".

1344/Del/93. The Procter & Gamble Company, "Method of production of extruded protein-containing cereal grain-based food products having improved qualities".

1345/Del/93. Exxon Chemical Patents, Inc., "Polymers functionalised by koch reaction and derivatives thereof".

1346/Del/93. Chemische Fabrik Stockhausen GMBH, "Copolymers and the use thereof in the treatment of leather".

1347/Del/93. Stanadync Automotive Corp., "Calibration System for electrically controlled fuel injection pump".

1348/Del/93. National Power Plc., "Heat Engine and Heat pump". (Convention date 1st December 1992), U.K.

1349/Del/93. Exxon Chemical Patents, Inc., "Improved Low Sediment process for forming borated dispersant".

1350/Del/93. Colgate-Palmolive Company, "Process for making Mild, Detergent-soap, toilet bars and the bar resulting therefrom".

## 01-12-93

1351/Del/93. Sovmestnoe Bolo Gaido-Rossiiskoe Predpriyatie, "Rossi-oof" and Sovmestnoe Rossiiskoe-Germanskoe Predpriyatie "INBIO", Process for recovery of precious metals from improvised Ores".

1352/Del/93. Whitaker Corporation, "Fibre Optic Connector". Convention date 7-1-93 GB.

1353/Del/93. Paul Wurth S.A., "Combined Machine for opening and plugging a Taphole in a shaft furnace".

1354/Del/93. Kalyan Kumar Sengupta, "An Automatic Lung Ventilator".

1355/Del/93. M.R. Brahmamukshas, "A Hospital Trolley".

## 02-12-93

1356/Del/93. Piaggio Veicoli Europei S.p.A., "Quick-Fixing device for Accessories in a Two-wheel vehicle, in particular for windscreens".

1357/Del/93. Stein Industrie, "A hot gas recovery boiler".

1358/Del/93. Motorola Inc., "A method for establishing Communication between Tasks of A limited number of repeaters in a communication system".

1359/Del/93. Motorola Inc., "Selective Call Signalling system with combined wide area paging and high data rate Transmissions via radio telephone transceivers".

## 03-12-93

1360/Del/93. The Lubrizol Corporation, "Lubricant with improved anti-corrosion properties".

1361/Del/93. Smiths Industries Public Limited Company, "Electrical Assemblies".

1362/Del/93. The British Petroleum Company P.L.C., "Oxide Compositons". (Convention date 4th December 1992), U.K.

1363/Del/93. Exxon Chemical Patents, Inc., "Polymers derived from Ethylene and I-Butene for use in the preparation of lubricant dispersant additives".

1364/Del/93 Exxon Chemical Patents, Inc., "Omorphous Olefin Polymers Copolymers, mthods of preparation and derivatives thereof".

1365/Del/93. Exxon Chemical Patents, Inc., "Dilute Process for the Polymerisation of Ethylene/Alpha-Olefin Copolymer using metallocene catalyst systems".

## 06-12-93

1366/Del/93. The Procter & Gamble Company, "Thin-Until-wet absorbent foam materials for aqueous body fluids and process for making same".

1367/Del/93 The Procter & Gamble Company, "Improved laundry detergent bars containing detergent chelant".

1368/Del/93 The Procter & Gamble Company, "Absorbent article having elasticized side flaps and wings".

1369/Del/93. The Procter & Gamble Company, "Flowable Compact Coffee".

1370/Del/93. The Procter & Gamble Company, "High-yield roasted coffee with balanced flavor".

1371/Del/93. Gerrard Thomas HUGHEN, "A Plasma Torch".

1372/Del/93. President of India. "An improvements in the black ash process for the recovery of water soluble strontium sulfide".

1373/Del/93. Richard Voss Grubenausbau GMBH., "High-capacity pressure limiting valve".

1374/Del/93. Rohm and Haas Company, "Suspension Polymerization Process for water-soluble monomers".

1375/Del/93. Kraft General Foods, Inc., "Low Fat Cheese product and method of manufacture".

1376/Del/93. BP Chemicals Limited, "Resin-Free succinimides". (Convention date 15th December 1992), U.K.

## 07-12-93

1377/Del/93. Charles W. Taggart, "Centrifugal Separator and method".

1378/Del/93. General Electric Company, "Improved Piston for an Alco series 251 diesel engine".

1379/Del/93. Reichle De-Massari AG, "Anti-Kink Apparatus for cable plugs".

1380/Del/93. Motorola Inc., "Data Communication receiver providing switched diversity reception of a radio signal".

1381/Del/93. Motorola Inc., "Paging System and method with acknowledge back signaling using a radio Telephone system".

1382/Del/93. W.R. Grace & Co. Conn., "Method for inhibiting corrosion of metals using polytartaric acids".

1383/Del/93. Susanna Elizabeth Chalmers, "Pharmaceutical product".

## 08-12-93

1384/Del/93. P.I. John, "A method of etching a substrate".

1385/Del/93. P.I. John, "A Plasma Nitriding furnace".

1386/Del/93. National Thermal Power Corporation Ltd., "A process for the preparation of unsintered light weight aggregates".

1387/Del/93. Amoco Corporation, "Catalyst and method for purifying crude terephthalic acid, isophthalic acid or naphthalene dicarboxylic acid".

1388/Del/93. Safety 1st, Inc., "Color Change Nipple".

1389/Del/93. Food Sciences, Inc., "Method and apparatus for the extraction of oils from grain materials and grain-based food products".

1390/Del/93. Piotr Ravilevich Miroevski, "Method and apparatus for producing a silicon based binding composition and product prepared therefrom". Gennadi Ivanovich Kolev, Leonid Glebovich Mallnovski and Ivan Pavlovich Shvarev.

09-12-93

- 1391/Del/93. Paul Wurth S.A., "Granulation method and device".
- 1392/Del/93. Sony Corporation, "A decoding apparatus for motion picture image signal".
- 1393/Del/93. Rohm and Haas Company, "Bile Acid sequestrant".
- 1394/Del/93. Shell Internationale Research Maatschappij B.V., "Herbicide methods, compositions and compounds".

10-12-93

- 1395/Del/93. The Whitaker Corporation, "Ground Connector".
- 1396/Del/93. Motorola Inc., "Communication device with code sequence selection system".
- 1397/Del/93. Rohm and Haas Company, "A method for producing azadirachtin".

## ALTERATION OF DATE UNDER SECTION-16

Patent No. 173320 (172/M/91), Ante-dated to 12th August 1987.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form-14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, given notice to the Controller of Patents at the appropriate office on the prescribed Form-15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule-36 of the Patents Rules, 1972.

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## स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बन्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से चार(4) महीने या अधिक ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हों, के भीतर कभी भी नियंत्रक, एकत्र

को उपयुक्त कार्यालय को ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध संबंधी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथाविहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए। "प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अंतर्राष्ट्रीय वर्गीकरण के अनुरूप हैं।"

रूपांकन (चित्र आरेखों) की फोटो प्रतियां यदि कोई हों, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता अथवा उपयुक्त शाखा कार्यालय द्वारा विहित लिप्यान्तरण प्रभार जिसे उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरांत उसकी प्रतिलिपि पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 2 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 2/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

Cl. : F 23 B 1/00; F 23 C 1/00, 5/00; F 23 D 14/00; 173301  
Int. Cl. : 28-C, 28-E;

## BURNER FOR THE COMBUSTION OF COAL, OIL OR GAS.

Applicant: THE BABCOCK & WILCOX COMPANY OF 1010 COMMON STREET, P.O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventor: ALBERT DANIEL LARUE.

Application No. 215/Cal/89 filed on 16th March 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972), Patent Office, Calcutta.

## 10 Claims

A burner for the combustion of coal, oil or gas, comprising:

a tubular burner nozzle having an inlet end and an outlet end and which defines a central passageway for conveying primary air containing pulverized coal particles therethrough to an outlet end of the burner;

a gas zone sleeve having an inlet end and an outlet end, concentrically arranged around the tubular burner nozzle and partially defining an annular enclosure therebetween;

an inner zone sleeve having an inlet end and an outlet end, concentrically arranged around the gas zone sleeve and defining an inner annular passageway therebetween, for conveying a first portion of secondary air needed for combustion to the outlet end of the burner;

a burner barrel having an inlet end and an outlet end, concentrically arranged around the inner zone sleeve and defining an outer annular passageway therebetween, for conveying a second portion of secondary air needed for combustion to the outlet end of the burner;

an air separation vane, connected to and extending outwardly and circumferentially around the outlet end of the inner zone sleeve, for influencing the path of the first portion of secondary air as it exits from the burner;

a retractable oil atomizer having an inlet end and an outlet end centrally disposed and supported within the central passageway, for conveying a mixture of oil and atomizing media to an atomizer sprayer plate located at the outlet end of the atomizer at the outlet end of the burner;

a plurality of retractable and rotatable gas elements, concentrically arranged around the tubular burner nozzle and extending through the annular enclosure, for conveying gas to the outlet end of the burner, having outlet ends located in close proximity to the outlet end of the tubular burner nozzle and being shielded from the secondary air when fully inserted into the burner by;

a flame stabilizing ring, attached to the outlet end of the tubular burner nozzle and which together with the tubular burner nozzle and the gas zone sleeve defines the annular enclosure therebetween, having a first portion circumferentially extending into the conical passageway to define an opening therein, a second L-shaped portion attached to the first portion of the flame stabilizing ring extending circumferentially around and outwardly from the outlet end of the tubular burner nozzle, and having a plurality of openings adapted to closely receive therethrough each of the plurality of retractable gas elements.

(Compl. specn. 35 pages.

Drgns. 5 sheets.)

Cl. 114 C

173302.

Int. C. D 06 N; B 44 F 9/12

"METHOD FOR MANUFACTURING IMITATIVE LEATHER MADE FROM HEMPS AS RAW MATERIALS"

Applicant : TAE SUB HWANG, of Room 207, Building 210, Jugong Apartment, 53 Beonji Kyekum 3 Dong, Pusanjin ku, Pusan, Korea, and YEONG GIL HONG, of Room 603, Dongback Mansion, 162-11 Gwangan 2 Dong, Nam ku, Pusan, Korea.

Inventor : KYEONG HWAN KIM, along with TAE SUB HWANG and YEONG GIL HONG

Application No. 536/Cal 89 filed on 10th July, 1989.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

10 Claims

A method for manufacturing imitative leather sheet made from hems as raw material which is characterized in that :

ripening ground hems passed through selecting process by weak alkali solution, and washing said ripened hemp fiber and removing said alkali and then treating it at the temperature of 5°C—35°C under the state of pressure of 30 kg/cm<sup>2</sup> by ammonia base method; then

treating it with either methylol urea and ammonium phosphate or sodium chromate and sulfuric acid; then

adhering amino radical to hemp fiber after treating secondly with ammonia;

coating the hemp fiber adhered with amino radical with S. B. R. resin and cyclohexyl -2- benzotiazoyl sulfonamid;

making coated hemp fiber to felt state of predetermined thickness by applying jetting device, and producing hemp fiber's non-woven sheet by pressing; and then

passing through soaking bath containing S. B. R. resin and methylphenol

Fig. 1

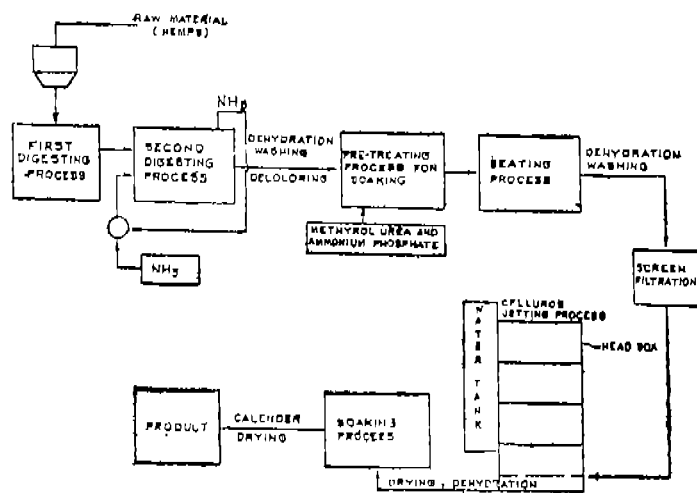
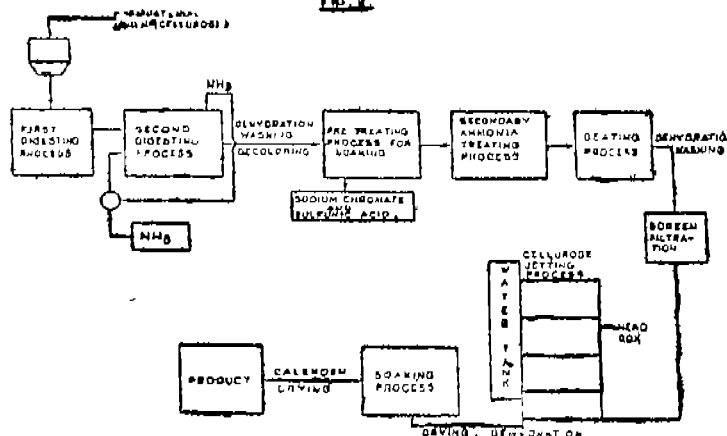


Fig. 2



(Compl. specn. 13 pages

Drgns. 4 sheets)

Cl. 127 G

173303.

18 Claims

Int. Cl.: F 16 H 5/40.

**"APPARATUS FOR MODIFYING AN INPUT ROTATION TO PRODUCE A MODIFIED UNIFORM ROTATIONAL OUTPUT"**

Applicant & Inventor : PAUL B. PIRES, of 1350 Dundee Avenue, Ben Lomond, California 95005, United States of America.

Application No. 643/Cal/89 filed on 8th August, 1989.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

## 44 Claims

An apparatus for modifying an input rotation to produce a modified uniform rotational output, comprising :

- (a) means for establishing said input rotation;
- (b) first means responsive to said input rotation for producing a first intermediate rotation which varies in speed in accordance with a first specific waveform at a particular peak-to-peak amplitude corresponding to the maximum speed of said intermediate rotation;
- (c) second means responsive to said input rotation for producing a second intermediate rotation which varies in speed in accordance with a second specific waveform identical to but 180 degrees out of phase with said first waveform; and
- (d) means for simultaneously coupling said first and second intermediate rotations to an output shaft in a way which causes said shaft to rotate and thereby provide a rotational output, said coupling means being designed to average said intermediate rotations such that said rotational output is a uniform output which corresponds in speed to the average of said first and second waveforms, whereby the speed of said output shaft depends upon the peak-to-peak amplitude of said waveforms.

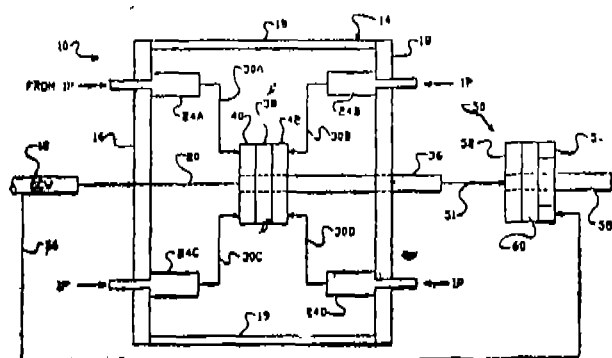


FIG.-1

(Compl. specn. 68 pages)

Drgns. 12 sheets)

Cl. 27 M

173304

Int. Cl. E 04 G 7/00

**"A METHOD OF CONNECTING TOGETHER COLUMNAR AND CONNECTING MEMBERS TO FORM A SUPPORT SYSTEM AND A SUPPORT SYSTEM SO FORMED"**

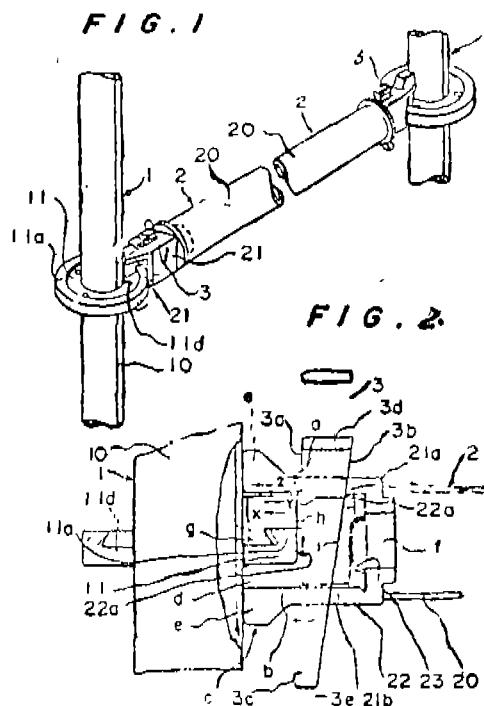
Applicant & Inventor : TATSUO ONO, of 5-20-13, Matsugasaki Funabashi, Chiba, Japan.

Application No. 825/Cal/89 filed on 3rd October, 1989.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

A method of connecting together columnar members and connecting members, each columnar member including a plurality of longitudinally spaced apart flanges each having a circumferentially extending wall, and each connecting member including a main body, a plurality of joint shoes each at a respective end of the main body, a plurality of hooks each disposed in an open end of a housing of a respective one of the joint shoes and a plurality of wedges each extendable into aligned wedge insertion holes in a respective one of the housings and the associated hook;

wherein the method comprises driving each wedge into its wedge insertion holes to alter the relative positions of the associated hook and housing and thereby bring the hook into engagement with a selected part of the inner surface of the wall of one of the flanges of one of the columnar members, whilst also bringing the open end of the housing into engagement with the outer surface of the columnar member each hook being slidable relative to the associated housing and main body and being biased by a respective elastically deformable member to move from a retracted position to an advanced position, whereby driving the associated wedge into its wedge insertion holes causes the hook to move towards its retracted position.



(Compl. specn. 32 pages)

Drgns. 8 sheets)

Cl. 128 G

173305.

Int. Cl. A 61 B 17/04

**IMPROVED RETAINER FOR SURGICAL SUTURES.**

Applicant : ETHICON, INC. of U. S. Route 22, Somerville, New Jersey 08876, United States of America.

Inventors : (1) CONSTANCE E. ROSHDY; (2) ROBERT JAMES CERWIN; (3) MARVIN ALPERN.

Application No. 865/Cal/89 filed on 19th October, 1989.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

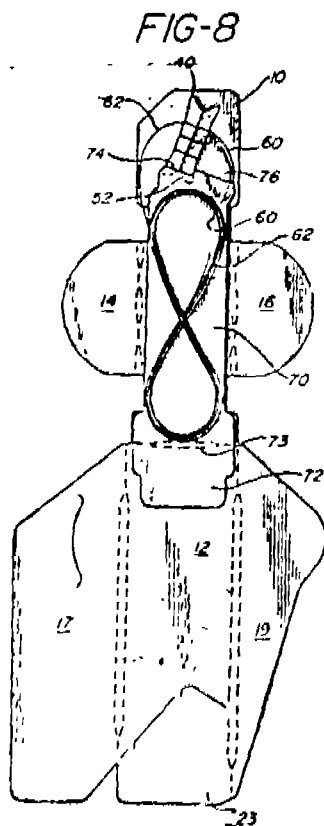
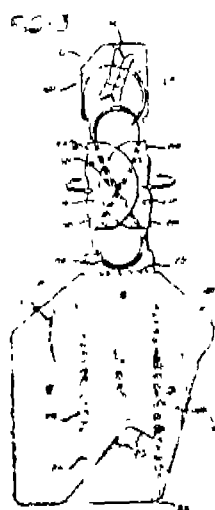
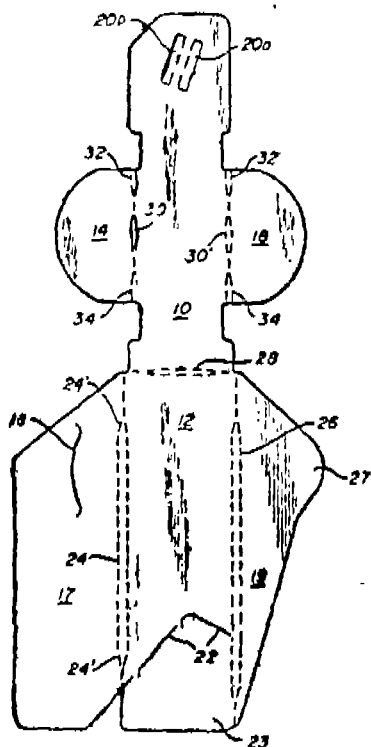
## 25 Claims

An improved retainer for surgical sutures which encloses a surgical suture, and comprising a compartment in which said suture is retained, comprising;

a suture winding panel having a pair of longitudinal edges and a pair of transverse edges;

a pair of suture holding panels foldable connected to said longitudinal edges of said suture winding panel, each foldable connector of a suture holding panel to an edge of said

suture winding panel comprising, at each end of said foldable connection, a gusset comprising two parallel score lines extending inwardly from said end and terminating in a single score line, whereby, when said suture holding panels are folded over said suture winding panel, a suture retaining compartment is defined therebetween exhibiting volumetric regions at the corners of said compartment.



Cl. 143-D<sub>2</sub>; 143-D<sub>3</sub>

173306

Int Cl. B 65 B 1/00, 3/00, 7/00.

**"APPARATUS FOR PACKAGING A FLUENT MATERIAL"**

Applicant & Inventor: ROY WEIKERT, of 645 S. High Street, Covington, Ohio 45318-1199, United States of America.

Application No. 14/Cal/90 filed on 2nd January, 1990.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

**9 Claims**

Apparatus for packaging a fluent material in successive pouches of material which are interconnected in a continuous web along the tops thereof by an integral tubular portion of said web and which are individually open to said tubular

portion but are sealed from each other by seams extending along the adjacent sides thereof comprising:

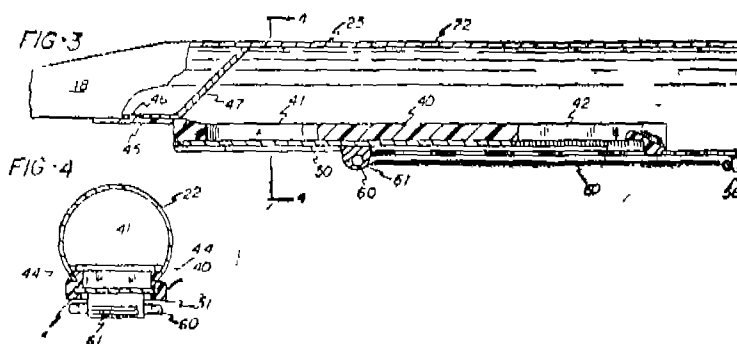
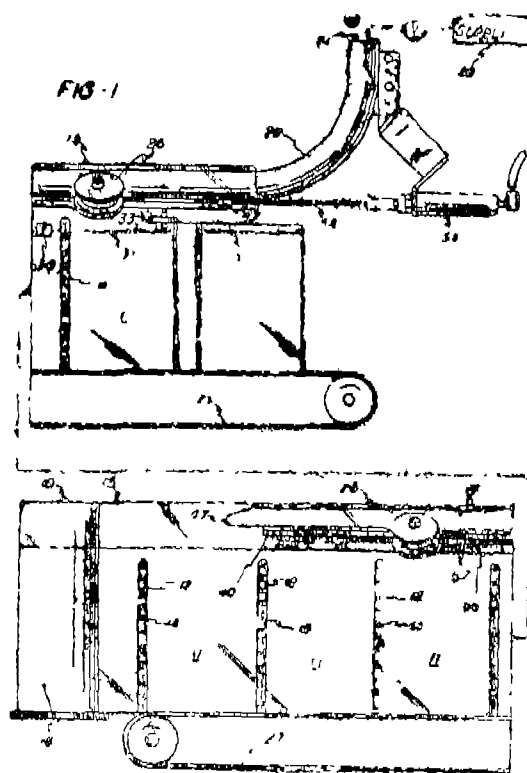
(a) an elongated filling pipe proportioned for insertion in said tubular portion of said web and having an inlet end and a discharge end,

(b) means for supplying a flow of fluent material to be packaged to said inlet end of said pipe,

(c) means at said discharge end of said pipe forming a pair of outlet ports spaced from each other lengthwise of the underside of said pipe,

(d) means for drawing said tubular portion of said web along said pipe with said pouches depending therefrom to receive said material from said outlet ports, and

(e) means for alternately opening and closing each of said outlet ports in timed relation with said feeding means whereby each of said ports is open only when one of said pouches is passing thereunder and is closed when one of said seams is thereunder,



(Compl. specn. 13 pages)

Drgns. 2 sheets)



Cl. 190 B

173307

Int. Cl. F 02 K 1/00

**"AXISYMMETRIC VECTORING EXHAUST NOZZLE"**

Applicant : GENPRAI ELECTRIC COMPANY, 1 River Road, Schenectady, State of New York 12345, United States of America.

Inventor : THOMAS ANTHONY HAUFER

Application No. 218/Cal/90 filed on 16th March 1990

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

**19 Claims.**

A vectorable axisymmetric convergent/divergent nozzle comprising :

in serial flow relationship and defining a flow path; a fixed nozzle casing;

a convergent nozzle section; a throat, and

a divergent nozzle section characterized in that said divergent nozzle section comprises a plurality of divergent flaps and a divergent flap control means for changing the flow path in said divergent nozzle section from axisymmetrical to an asymmetrical.

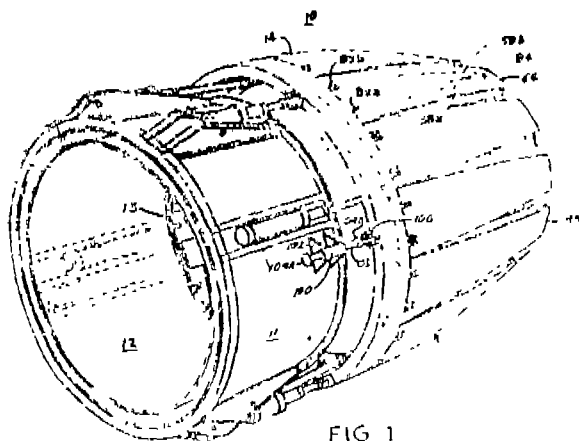


FIG 1

(Compl. specn. 18 pages.)

(Drgns. 5 sheets.)

Cl. 35 C, D &amp; E

173308.

Int. Cl. C 04 B 2/00, 35/00

E 04 F 15/10, 15/12

**"IMPROVEMENTS IN OR RELATING TO BASIC GUNNING MATERIAL"**

Applicant & Inventor : SWAPAN KUMAR CHATTOPADHYAY, of 40/7, Danesh Shaikh Lane, Howrah - 711109, West Bengal, India.

Application No. 276/Cal/90 filed on 3rd April, 1990

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

**9 Claims.**

A basic gunning composition for gunnitting and/or treatment of defective or damaged surfaces comprising as ingredients at least one basic material, an additive and a bonding material, wherein the said ingredients are present in the following proportions -

(i) basic material — 10-90% by weight,

2—7 GI/94

(ii) additive — 1-90% by weight, and

(iii) bonding material — 2-20% by weight, and

furthermore optionally incorporating therein reinforcement(s) for improving mechanical characteristics, the said ingredients and reinforcement(s) being such as herein described.

(Compl. specn. 10 pages)

(Drgns. Nil.)

Cl. 35 F

173309

Int. Cl. C 01 B 33/00, 33/12, 33/26 B 28 C 1/00

**"IMPROVEMENTS IN OR RELATING TO SILICEOUS GUNNING MATERIAL"**

Applicant & Inventor : SWAPAN KUMAR CHATTOPADHYAY, of 40/7, Danesh Shaikh Lane, Howrah - 711109, West Bengal, India.

Application No. 277 Cal/90 filed on 3rd April 1990.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

**9 Claims.**

A siliceous gunning composition for gunnitting and/or treatment of defective or damaged surfaces comprising as ingredients at least one siliceous material, aluminosilicate and/or zircon and bonding material such as herein described wherein the ingredients are present in the following proportions-

(a) siliceous material — 5-90% by weight.

(b) aluminosilicate and/or zircon—10-95% by weight.

(c) bonding material—2-7% by weight, and

if desired, incorporating therein reinforcement(s) such as herein described

(Compl. specn. 9 pages)

(Drgns. Nil.)

Cl. 32 E

173310.

Int. Cl. C 08 F 4/64, 4/76

**"AN IMPROVED PROCESS OF PREPARING CATALYSTS FOR POLYMERIZATION OF OLEFINS WITH HIGHYIELD AND DESIRABLE CHARACTERISTICS OF POLYMERIZED PRODUCTS"**

Applicant : (1) DR. S. N. SUR, of A 1/5 Uttarayan Housing Estate, 102 B. T. Road, Calcutta - 700035 India (2) POLYOLEFINS INDUSTRIES LIMITED, Mafatlal Centre, Nariman Point, Bombay-400021, India.

Inventors : (1) DR. S. N. SUR, (2) DR. P. K. BANERJEE (3) DR. K. S. JADHAV, (4) DR. R. DASGUPTA, (5) MR. D. NALLAVERRAPPAN.

Application No. 599/Cal/90 filed on 18th July, 1990.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

**16 Claims.**

An improved process of preparing catalysts for polymerisation of olefins with high yield and desirable characteristics of polymerised products, comprising preparing a solution of Grignard reagent alkyl ether complex in a hydrocarbon solvent in a modified method, as herein described and reacting a transition metal compound in which the metal occurs in its normal maximum valency state, with said complex in the method, as herein described, with optional incorporation of an oxygen containing compound to the reactants in an amount not exceeding 0.5 mole per mole of the Grignard reagent in said complex.

(Compl. specn. 34 pages)

(Drgns. Nil.)

Ind. Class - 32-F<sub>3</sub>(c) 39-C; 40-A 173311

[GROUPS - IX(1); III &amp; IV (1)]

Int. Cl. - B 01 J 8/04

C 01 C 1/04

C 07 C 31/04

**A CONVERTER FOR HETEROGENEOUS CATALYTIC SYNTHESIS**

Applicants : (1) AMMONIA CASALE S.A. OF VIA DELLA POSTA 4, CH - 6900 LUGANO, A SWISS COMPANY and (2) UMBERTO ZARDI OF VIA LUCINO 57, CH-6932 BREGANZONA, SWISS CITIZEN.

Inventors : (1) GIORGIO PAGANI

(2) UMBERTO ZARDI

Application No. 916/MAS/88 filed December 23, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**6 Claims**

A converter for heterogeneous catalytic synthesis, comprising :

(1) a one piece external shell; and

(2) a cartridge located within said shell, said cartridge comprising (a) a one piece wall for forming an airspace with said shell; (b) a plurality of catalyst baskets located within said airspace-forming wall, each basket containing a catalyst bed and each basket comprising :

(i) a permeable, annular external wall for distributing gas entering said catalyst bed;

(ii) a permeable, annular internal wall located within said external wall for distributing gas exiting said catalyst bed, said external and internal walls defining said catalyst bed;

(iii) a closed bottom having coupling means located on an edge thereof for coupling said baskets to said airspace-forming walls; (c) support means protruding from an internal wall of said airspace-forming wall for engaging said coupling means and supporting said catalyst baskets;

(d) a heat exchanger centrally located within at least part on one of said baskets; (e) an internal gas distribution collector located within at least one of said catalyst basket for collecting gas exiting said catalyst bed through said permeable internal wall; (f) a diaphragm located in said collector and associated with said heat exchanger for distributing gas entering said heat exchanger; and (g) a second heat exchanger located within one of said plurality of catalyst baskets positioned below said catalyst basket containing at least part of said centrally located heat exchanger, said heat exchangers being connected by unflanged sealing means.

(Compl. Specn 16 pages.

Drg. - 6 sheets)

Ind. Class-140-A<sub>1</sub>-[GROUP-KI(2)]

173312

Int. Cl.-C 10 M 143/14

**A PROCESS FOR PRODUCING PARAFFIN-RICH CRUDE OILS AND MINERAL OIL FRACTIONS**

Applicant : HENKEL KOMMANDITGESSELLSCHAFT AUF AKTIEN, A COMPANY ORGANIZED AND EXISTING UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY OF HENKEL STRASSE 67,400 DUSSELDORF-HOLTHAUSEN, GERMANY.

Inventors : (1) DR. WOLFGANG RITTER

(2) OLIVER PIETSCH

(3) WOLFGANG ZOLLNER

(4) DR. CLAUS-PETER HEROLD

(5) DR. STEPHAN VON TAPAVICZA

Application No. 35/MAS/89 filed on January 17, 1989.

Appropriate Office for Apposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**6 Claims (No drawing)**

A process for producing paraffin-rich crude oils and mineral oil fractions with lower pour-points from paraffin-rich crude oil and mineral oil having original pour-points higher than 25°C comprising admixing 20 to 1000 ppm of copolymers of acrylic and/or methacrylic acid esters of higher alcohols or alcohol esters having at least 16 carbon atoms in the alcohol moiety and 0.5 to 5% by weight of maleic anhydride relative to the weight of said copolymer to obtain paraffin-rich crude oil and mineral oil with pour-points of less than 15 C.

(Com-14 pages)

Ind. Class-188-[GROUP-XXXIII(9)]

173313

Int.Cl.-C 23 C 2/00

**A METHOD OF MAKING A CONTINUOUS COATED FLIFORM STEEL SUBSTRATE**

Applicant : BATTELLE MEMORIAL INSTITUTE OF 7 ROUTE DE DRIZE, 1227 CAROUGE/GENEVA, SWITZERLAND, A U.S. COMPANY.

Inventor : MICHEL KORNEMANN

Application No. 101/MAS/89 filed February 7, 1989.

Appropriate Office for Apposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**4 Claims**

A method of making a continuous coated fliform steel substrate comprising the steps of :

Preparing a molten coating bath of at least one element selected from the group consisting of Cu, Ag, Zn and any combination thereof having a melting point greater than an austenizing temperature of the steel;

Preheating the steel substrate to a temperature lower than the temperature of the said bath;

passing the steel substrate through the bath during which the temperature of the steel substrate is raised to the austenizing temperature keeping a tension of not more than 15M Pa on the steel substrate to obtain a coating on it;

cooling the coated steel substrate at a rate depending on the specific TTT curve of the steel substrate for imparting a softened ferrite-pearlite crystalline structure upon the said steel substrate; and

re-drawing the coated steel substrate to reduce its cross-section

(Com.—10 pages;

Drwgs.—2 sheets)

Ind. Class-195-C&amp;D-[GROUP-XXIX(3)]

173314

Int. Cl.-F 16 L 29/00

**AUTOMATIC WATER STOPPER**

Applicant & Inventor : SRINIVASA NATARAJAN, 1 SECOND MAIN ROAD, KOTTUR GARDENS, MADRAS-600 085

Application No. 109/MAS/89 filed February 13, 1989.

Appropriate Office for Apposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 1 Claim

## 3 Claims

Automatic water stopper device comprising a housing consisting of a reducer, bare nipple, second reducer and second bare nipple and coupling inside which housing the stopper mechanism comprising a compression spring supported at one end by a washer and the other end by a spindle which is seated against the filter tube with a washer so that when the water tap is screwed on to the housing a clearance between bare nipple and spindle is maintained allowing the water to flow also when the tap is removed from the coupling along with the filter tube the spring pushes the spindle with the rubber washer gets seated on the inner end of the bare nipple thus closing the gap in between the stopping the water flow to the tap.

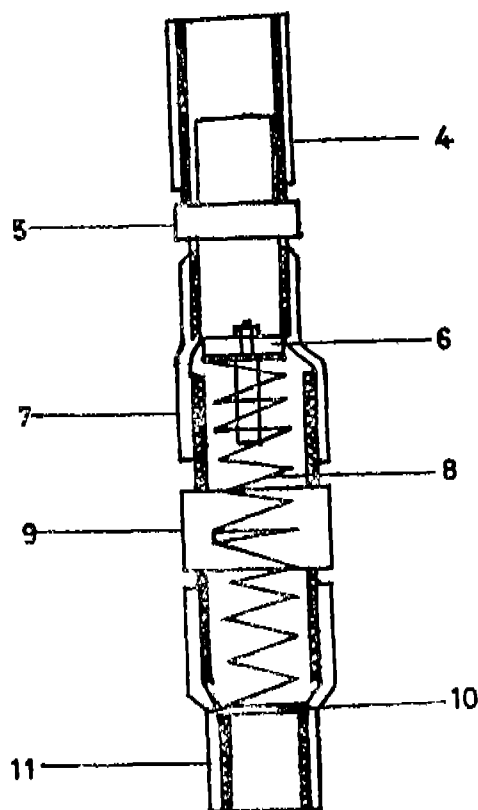


FIG. 2

(Com.—3 pages;

Drwgs.—2 sheets)

Ind. Class.—40-E&amp;F-[GROUP-IV(1)]

173315

Int. Cl.—F 17 D 1/04

## MULTIPLE AIR LAYER LIQUID PROCESSING SYSTEM

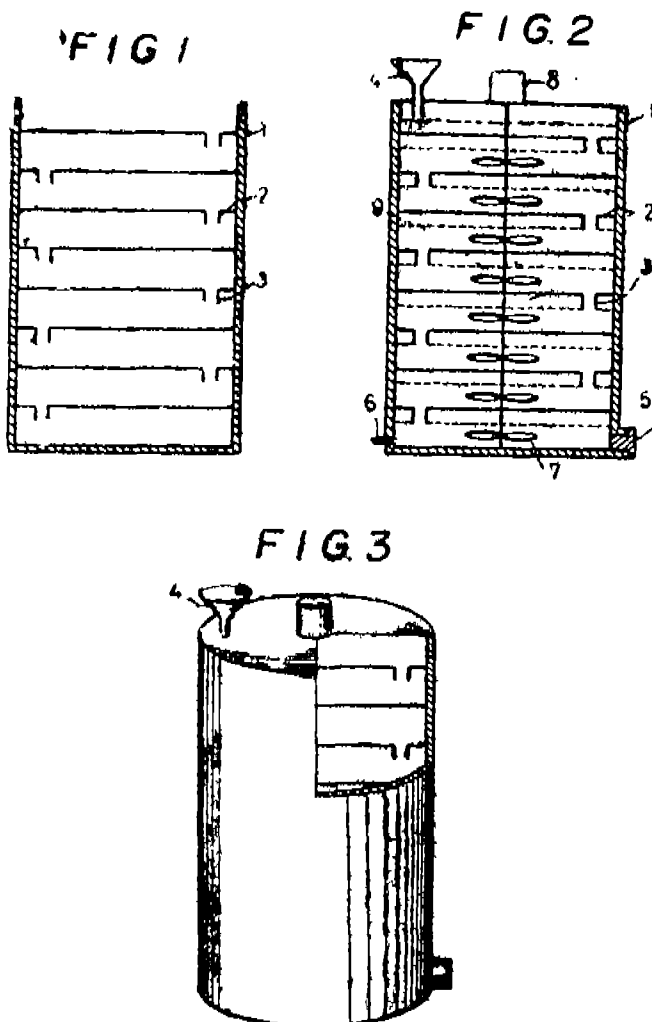
Applicant : YUGEN-KAISHA PARASIGHT, OF YAKUSHI, 1-CHOME, 6-8-313, KAGOSHIMA, SHIKAGOSHIMAKEN, JAPAN. A JAPANESE COMPANY.

Inventors : (1) YUKO NOJIMA  
(2) HISATAKE NOJIMA

Application No. 272/MAS/89 filed April 11, 1989

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules, 1972), Patent Office, Madras Branch

A multiple air layer liquid processing system comprising multiple plates stacked horizontally at appropriate intervals in a tank; pipes downward protrusions and length shorter than the said intervals, tunnelling through each of said plates, rotating blades placed between said plates to agitate the liquid to be treated which is filled in the tank; and a gas inlet having an opening into the space between the lowest plate placed at the bottom of the tank to pass air or gas into said liquid to be treated.



(Com.—7 pages,

Drwg. 1 sheet.)

Ind. Class.—89-[GROUP-XLI(6)]

173316

Int. Cl.—G 01 L 23/10

## A PRESSURE SENSOR

Applicant : SCHLUMBERGER INDUSTRIES, I.N.C., A DELAWARE CORPORATION, OF 180 TECHNOLOGY PARKWAY, NORCROSS, GEORGIA 30092, U.S.A..

Inventors : (1) PHILLIP WALTER BARTH  
(2) KURT EDWARD PETERSEN

Application No. 318/MAS/89 filed April 26, 1989.

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules, 1972), Patent Office, Madras Branch.

## 12 Claims

A pressure sensor comprising : a base having an opening therein ; a flexing layer formed from or connected to base

and disposed over the opening; at least a first layer of insulator disposed on the diaphragm; a monocrystal line silicon resistive region laminated to the flexing layer in contact with the first layer; and electrical connections to the resistive region at each of the first and second contact locations.

(Com.—14 pages;

Drgns. 3 sheets )

Ind. Class-130-F-(GROUP-XXXIII)(7)]

173317

Int. Cl.<sup>4</sup> - B 22 D 41/00

DISPENSING APPARATUS FOR DELIVERING INOCULANT INTO THE STREAM OF MOLTEN METAL

Applicant : ELKEM A/S, A COMPANY INCORPORATED : UNDER THE LAWS OF NORWAY OF NYDALSVIEN 28, OSLO 4, NORWAY.

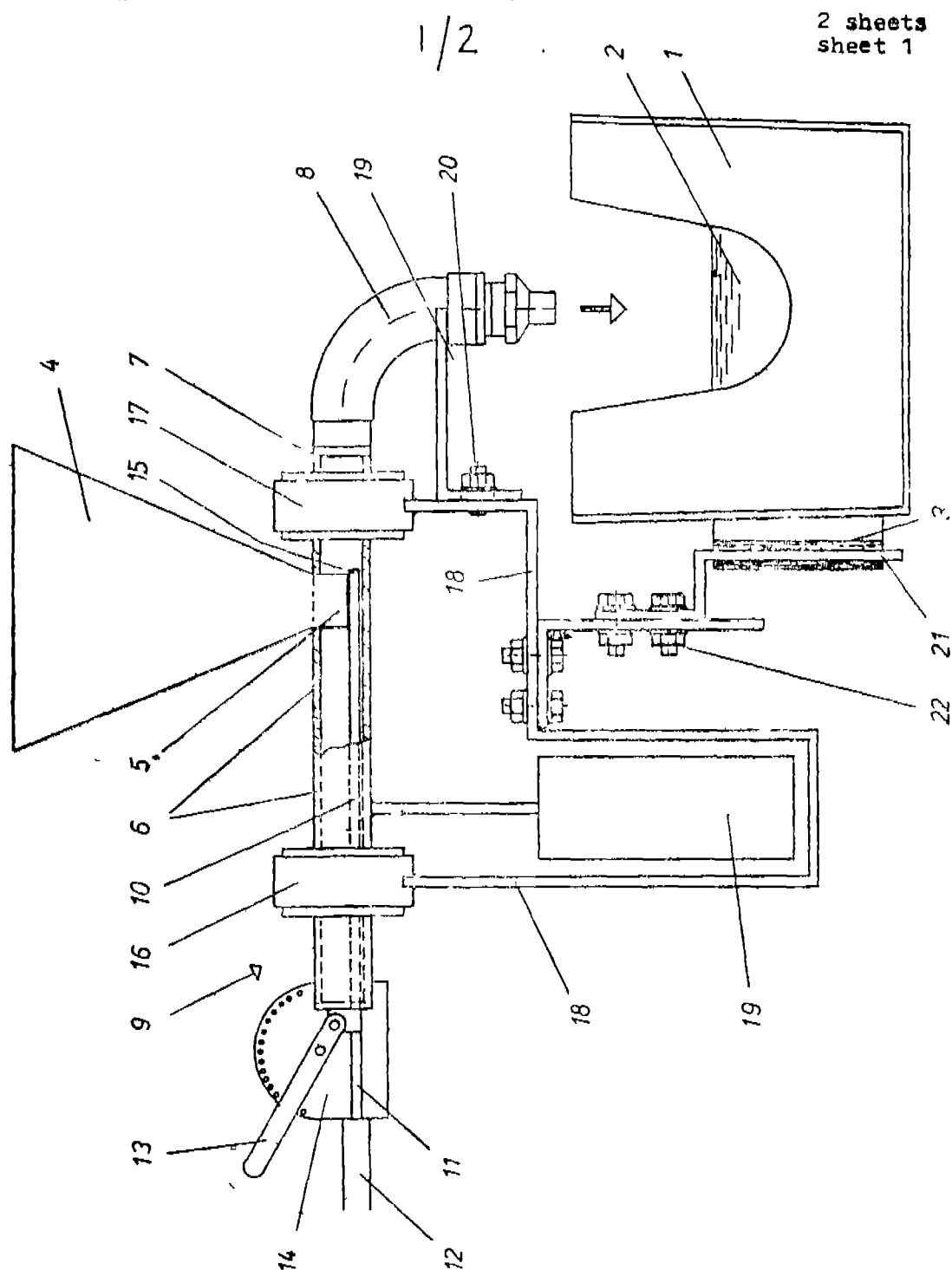
Inventor : PERTTI HARMA

Application No. 573/MAS/89 filed August 3, 1989.

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules, 1972), Patent Office, Madras Branch.

9 Claims

Dispensing apparatus for delivering inoculant into the stream of molten metal flowing from the spout of a tilting ladle, comprising a reservoir for the inoculant which opens into a supply pipe and an outlet connected to the supply pipe arranged to direct the inoculant to the spout of the ladle, wherein the said spout of the ladle and the said outlet are together rotatable relative to the reservoir and supply pipe.



(Compl. specs 10 pages;

Drgns. 2 sheets.)

Ind. Class-116-B-[GROUP-XLIX]

173318

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

Int. Cl.-B 65 G 67/34 B 61 D 9/00

## A ROTARY DUMPERS

Applicant : STRACHAN & HENSHAW LIMITED, OF ASHTON WORKS, P O BOX 103, ASHTON VALE ROAD, BRISTOL BS 99 7TJ, ENGLAND, A BRITISH COMPANY.

Inventor : PAUL JOHN DOWDEN

Application No. 587/MAS/89 filed August 8 1989.

Convention date : August 10, 1988; (No. 88.19012.9, United Kingdom)

13 Claims

A rotary dumper having a tipping structure comprising a platform for a rail car and clamping means mounted on said structure for clamping a car on said platform, the tipping structure further comprising coaxial ring members at or adjacent the ends of the structure, said ring members being supported on mountings for rotation of said structure about the axis of the ring members to dump the contents of a car clamped on the platform, flexible connections being provided between the rail car platform and the ring members for limiting the transmission of bending moments therebetween.

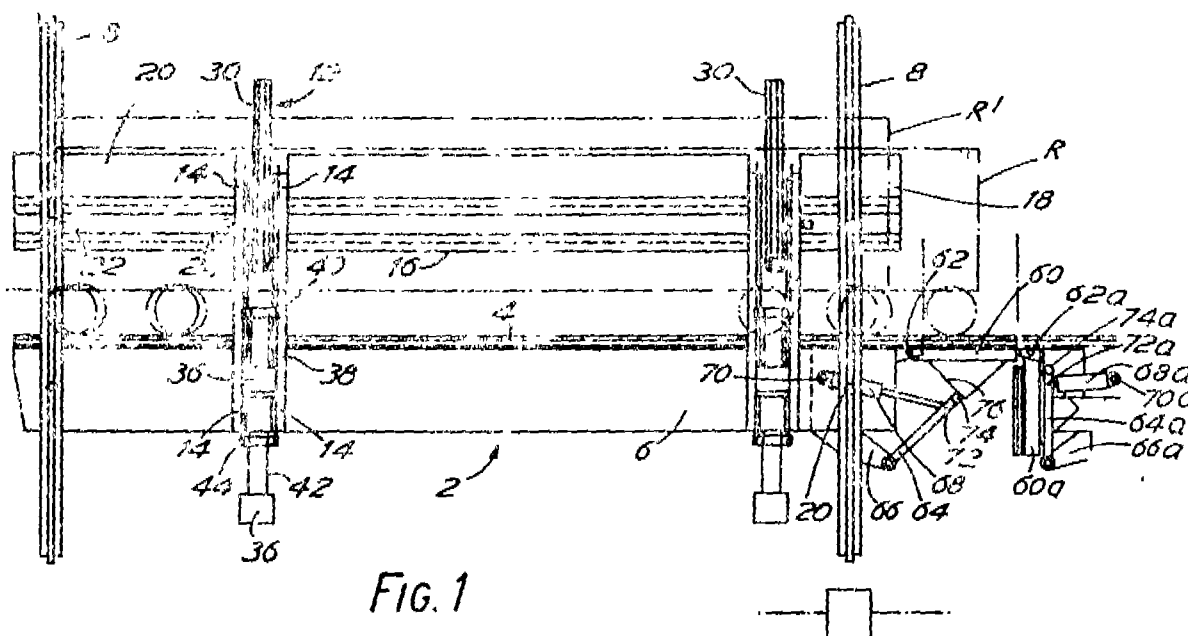


FIG. 1

(Com. -14 pages,

Drgns. 4 sheets.)

Ind. Class-172-D,-[GROUP-XX]

173319

Int. Cl.-D 01 H 1/18

## A BOBBIN HANGER SUITABLE FOR A SPINNING MACHINE

Applicant & Inventor : YOJI KITAMURA, 1-18 DE-GUCHI 1-CHOME, HIRAKATA-SHI, OSAKA-FU, JAPAN, A CITIZEN OF JAPAN.

Application No. 630/MAS/89 filed August 22, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

7 Claims

A bobbin hanger suitable for a spinning machine, comprising a bobbin hanging tube having an upper expanded section and a lower reduced section extending from the expanded section; the lower end of the said bobbin hanging tube is formed in a tapered shape having an acute tip angle; a sliding member pivotally supporting a pair of bobbin holding fingers at a lower position thereof, pivotally supporting a retaining member integrally provided with a ratches and retaining projections at an upper position thereof, and axially slidably inserted in the reduced section of the bobbin hanging tube; a ratchet operating member having an operating leg for operating the ratchet of the retaining member; and a weight axially slidably put on the reduced section of the bobbin hanging tube said weight capable of being pushed up by a bobbin to push up the sliding member so that the retaining member is turned through an angle of 90° by the operating leg of the ratchet operating member engaging the ratchet of the re-

taining member to bring the retaining projections to a position for resting on the inner upper end of the reduced section of the bobbin hanging tube to retain the sliding member at a position where the bobbin holding fingers are allowed to swing outward to engage the inner surface of the bobbin; wherein the position of the upper end of the said weight at the completion of turning of the said retaining member is 4 to 10mm below the lower end of the said expanded section of the said bobbin hanging tube and the said bobbin holding fingers have a shape capable of preventing the retraction of the bobbin holding fingers into the interior of the said bobbin hanging tube when acted upon by a horizontal force.

(Com.—18 pages;

Drgns. 4 sheets.)

Ind. Class : 40-F [GROUP-IV(1)]

173320

Int. Cl. : C 10 L 10/00

## AN IMPROVED FOSSIL FUEL COMPOSITION FOR A BOILER OR FURNACE CAPABLE OF REACTIVATING THE DENITRATING CATALYST.

Applicant : TOA NEKKEN CORP. LTD., OF SUITES 3701 OR 3720 JARDINE HOUSE, CONNAUGHT PLACE, CENTRAL, HONG KONG.

Inventors : (1) TWAQ MORIMOTO  
(2) HIROSHI SASAKI.

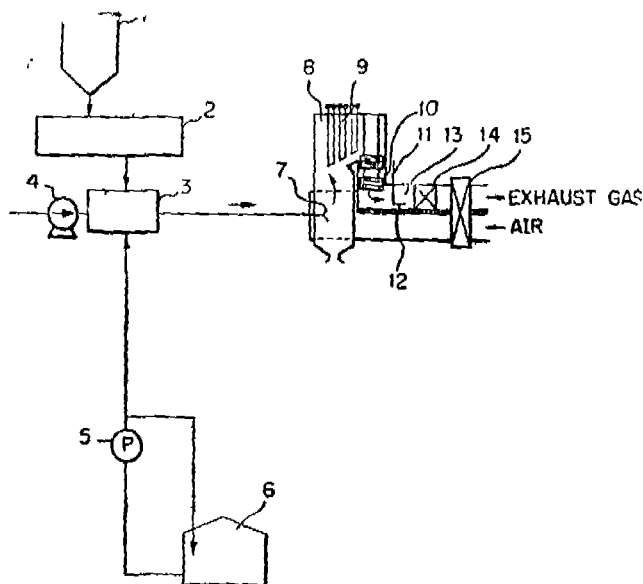
Application No. 172/MAS/91 filed February 27, 1991.

Divisional to Patent Application No. 579/MAS/87; Antedated to August 12, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 5 Claims

An improved fossil fuel composition for a boiler or furnace capable of reactivating the denitrating catalyst comprising fossil fuel such as heavy oil, pulverized coal, admixed with a mixture of at least one iron compound selected from iron chlorides, iron hydroxides and iron oxides in an amount of 5 to 200 ppm in terms of  $\text{Fe}_2\text{O}_3$  and at least one compound selected from the group consisting of vanadium compounds in an amount of 2 to 50 ppm in terms of  $\text{V}_2\text{O}_5$  and tungsten compounds in an amount of 1 to 15 ppm in terms of  $\text{WO}_3$ .



(Com. 28 pages;

Drawgs. 8 sheets)

1 to 25% by weight of total explosive, containing water-immiscible fuel of the kind as herein described and emulsifier of the kind as herein described and a discontinuous phase in an amount of from 20 to 67% by weight of total explosive, containing oxidiser salt, of the kind as herein described the said composition containing less than 5% by weight of water and containing the balance amount of at least one particulate material of the kind such as herein described effective as a nucleating agent to reduce supercooling of the discontinuous phase and accelerate crystallisation of the oxidiser salt, said explosive composition being solid at ambient temperature.

A process for producing an explosive composition comprising emulsifying at a temperature above ambient temperature, a liquid oxidiser salt component of the kind as herein described in an amount of from 20 to 70% by weight of the total explosive, containing less than 5% water by weight of the composition and a water immiscible liquid fuel component of the kind as herein described in the presence of an emulsifying agent of the kind as herein described together in an amount of from 1 to 25% by weight of total explosive, to form a melt-in-fuel emulsion in which the oxidiser salt is in the discontinuous phase and the fuel is in the continuous phase, cooling said emulsion and allowing the oxidiser salt to crystallise in admixture with a balance amount of particulate material of the kind such as herein described effective as a nucleating agent whereby crystallisation of the oxidiser salt is accelerated.

(Complete Specn. 26 pages)

Ind. Cl. : 23 H.

173322

Int. Cl. : G11B 33/02

A DOOR ASSEMBLY FOR CLOSING A DOOR OPENING IN A WALL OF A CABINET SUCH AS A FLOPPY DISC DRIVE HOUSING.

Applicant : DIGITAL EQUIPMENT CORPORATION, A MASSACHUSETTS CORPORATION OF 146 MAIN STREET, MAYNARD, MASSACHUSETTS 01754, UNITED STATES OF AMERICA.

Inventors : JEFFREY MICHAEL LEWIS & JOHN CLAYTON KILLIANS.

Application for Patent No. 409/DEL/87 filed on 12th May 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

Ind. Cl. : 72 B.

173321

Int. Cl. : C06B 29/02, 31/08 & 31/28.

SOLID EXPLOSIVE COMPOSITION AND A PROCESS FOR PREPARATION THEREOF.

Applicant : IMPERIAL CHEMICAL INDUSTRIES PLC., A BRITISH COMPANY, OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1P 3 JF, ENGLAND.

Inventors : JOHN COOPER, COLIN ANTHONY MUMME-YOUNG AND DAVID STEWART REID.

Application for Patent No. 164/DEL/87 filed on 25th Feb., 1987.

Convention date 14 Mar 1986/8606387/U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

### Claims 24

An explosive composition comprising a water-in-oil emulsion at a temperature above ambient temperature, said emulsion comprising a continuous phase in an amount of from

### Claims 6

A door assembly (10) for closing a door opening (12) in a wall (14) of a cabinet (16) such as a floppy disk drive housing said assembly (10) comprising :

a door (18) having first and second ends and an edge (25) extending between said ends;

at least a first (22a, 22b) and second (24a, 24b) pairs of guide pins extending from each of said ends;

said first (22a, 22b) pair of guide pins being located adjacent to said edge (25), and

said second (24a, 24b) pair of guide pins being spaced from said first (22a, 22b) pair of guide pins in a direction away from edge (25);

first (20a) and second (20b) guide members fixed with respect to and oriented substantially perpendicular to said wall (14), said guide (20a, 20b) members being located adjacent to opposite ends of said (18) door, each of said guide (20a, 20b) members having first (26a, 26b) and second (28a, 28b) pairs of interjecting slots in which first (22)

and second (24) guide pins are respectively located, each of said first (22a, 22b) pair of slots extending from a forward end to a rear end, said forward ends being located adjacent to said (14) wall, said first slots (26a, 26b) being oriented substantially perpendicular to said door (12) opening;

each of said second (28a, 28b) pair of slots having a forward end spaced laterally from the forward end of said first (26a, 26b) pair of slots, said forward ends of said second (28a, 28b) pair of slots being located adjacent to said wall (14), each of said second (28a, 28b) slots extending from its forward end to intersect with one of said first (26a) slots at an angle, each of said second (28a, 28b) slots being oriented such that it forms an acute angle with respect to said wall (14), whereby when the door (18) is closed, the first guide (22a, 22b) pins are adjacent to the forward ends of the first (26a, 26b) slots and the second (24a, 24b) guide pins are adjacent to the forward ends of the second (28a, 28b) slots and when the door (14) is open, the first (22a, 22b) guide pins are located rearwardly from the intersections of said first (26) and second (28) slots and the second (24a, 24b) guide pins are located forwardly thereof; and

a spring (30a, 30b) spring connected between one of said second (24) guide pins and a retaining (32a, 32b) member, said retaining (32a, 32b) member located rearward of one of said second (28) slots and being fixed with respect to one of said guide (20a) members, said spring (30a, 30b) being arranged to urge said door (14) laterally and rearwardly into said door (12) opening.

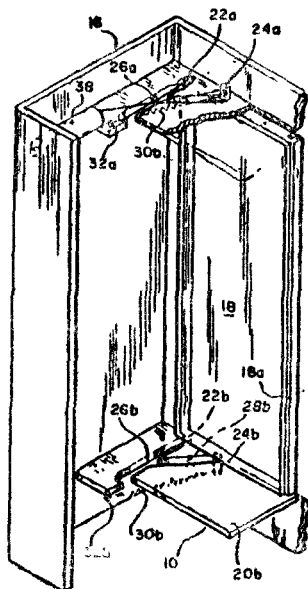


FIG 2

(Comp. Specn. 15 pages;

Drwgs. 2 sheets)

Ind. Cl.: 40 F LV(1) &amp; 70 B LVIII(5).

173323

Int. Cl.: C 25B 11/00, 11/20, H01M 4/94.

AN ELECTROCHEMICAL CELL FOR EMPLOYMENT IN AN ELECTROCHEMICAL SYSTEM.

Applicant: HUGHES AIRCRAFT COMPANY, A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 7200 HUGHES TERRACE, P.O. BOX 45066, LOS ANGELES, CALIFORNIA 90045-0066, UNITED STATES OF AMERICA.

Inventor: FRANK ARNO LUDWIG, CARL WARREN TOWNSEND.

Application for Patent No. 573/DEL/1988 filed on 5th July 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

## Claims 26

An electrochemical cell for employment in an electrochemical system containing excess free electrolyte, said cell having an anode compartment containing anode solution and a cathode compartment containing cathode solution of composition different from said anode solution, in which compartments gas and ions are produced and consumed during electrical current generation by said system, said cell comprising:

a membrane for separating said anode compartment from said cathode compartment, said membrane having a cathode side and an anode side and comprising ion-permeable regions to provide transfer of ions while limiting the flow of solution between the cathode and anode sides of the membrane whereby said anode solution is maintained separate from said cathode solution, and gas-permeable regions to provide transfer of gases between the cathode and anode sides of the membrane;

cathode means located in said cathode compartment on the cathode side of the membrane and in contact with said membrane for generating electric current; and

anode means located in said anode compartment on the anode side of the membrane and in contact with said membrane for generating electric current wherein gas and ions generated at said cathode means and anode means migrate through said membrane to provide transfer of said gas and ions between said anode and cathode compartments while the flow of said solution is limited.

(Comp. Specn. 35 pages;

Drwg. 1 sheet.)

Ind. Cl.: 40 B.

173324

Int. Cl.: C12N 9/00, 11/00.

A PROCESS FOR PREPARING A LOW MOLECULAR WEIGHT (BELOW 20,000 DALTONS) CELLULOSE FREE XYLANASE ENZYME.

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860) HEREBY DECLARE.

Inventors: JYOTI VASANT HINGE, ABHAY PARASHURAM SHENDYE, MANDAYAM CHAKRAVARTHI SRINIVASAN, MALA BALCHANDRA RAO.

Application for Patent No. 796/DEL/89 filed on 7th Sep., 1989.

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## Claims 8

A process for the preparation of low molecular weight (below 20,000 daltons) cellulase free xylanase enzyme which comprises culturing a strain of alkalophilic thermophilic *Bacillus* sp. Having the accession No. 59 of NCIM, (National Collection of Industrial Micro Organisms) its subcultures, natural mutant as well as artificially produced mutants thereof under aerobic submerged culture in an aqueous nutrient medium containing nitrogenous supplements, at a temperature in the range of 37–50°C at a pH in the range of 7–10 for a period of 36–48 hrs to produce a mixture of an extracellular xylanase enzyme one

having low molecular weight (less than 20,000) and another having higher molecular weight (above 20,000 daltons), separating the enzyme having molecular weight less than 20,000 daltons by known methods and if desired, purifying the enzyme by known methods

(Comp. Specn. 10 pages)

Ind. Cl. : 32 F<sub>2</sub>b [IX(1)]

173325

Int. Cl.<sup>4</sup> : C07D 241/02

# PROCESS FOR THE PREPARATION OF NOVEL PIPERAZINE DERIVATIVES.

Applicant : SOCIETE DE CONSEILS DE RECHERCHES ET D'APPLICATIONS SCIENTIFIQUES (S.C.R.A.S.), A FRENCH COMPANY, OF 51/53 RUE DU DOCTEUR BLANCHE, 75016 PARIS, FRANCE.

Inventors : EDUARDO PHROTSKY, JEAN-JACQUES GODEROID, FRANCOISE HEYMANS PIERRE BRAQUET AND GEORGES DIVE.

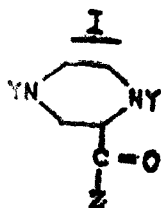
Application for Patent No. 875/Del/89 filed on 3 Oct. 1989.

Convention Date 11 Oct 1988/88237755/U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

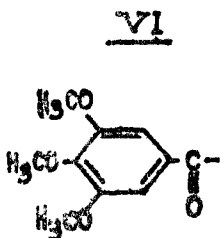
## 2 Claims

A process for the preparation of novel piperazine derivatives having the general formula I



of the accompanying drawings

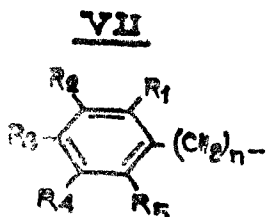
wherein Y stands for a group of the formula VI



of the drawings

and Z represents

— either a substituent OA wherein A represents a straight or branched alkyl chain having from 1 to 12 carbon atoms; a cycloalkyl group having from 5 to 10 carbon atoms or a group of the general formula VII

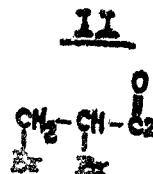


of the drawings

wherein n is zero or an integer of from 1 to 5 and either each of R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> independently represents a hydrogen, chlorine or bromine atom, trifluoromethyl, trifluoromethoxy or trifluoromethylthio methyl or methoxy, group,

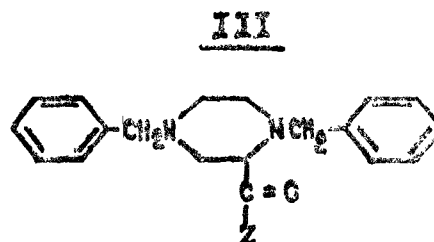
— or a substituent of formula VIII wherein A<sub>1</sub> and A<sub>2</sub> independently represent a hydrogen atom or the same groups A as above defined or A<sub>1</sub> and A<sub>2</sub>, together form a cycloalkyl group having from 5 to 10 carbon atoms.

which comprises reacting a compound of formula II



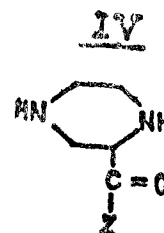
of the drawings

wherein Z is as above defined, with equimolar quantity of N, N-dibenzylethylenediamine; the reaction being carried out in an aprotic solvent (such as benzene or toluene) at 80°C in the presence of triethylamine hydrogenolizing the trisubstituted piperazine obtained of formula III



of the drawings

In the presence of Pd/charcoal in an alcoholic solvent at 40°C, under pressure and treating the corresponding monosubstituted piperazine obtained of formula IV



of the drawings

by 3, 4, 5-trimethoxybenzoyl chloride in benzene and in the presence of triethylamine, at room temperature.

(Comp. Specn. 11 pages)

Drwgs. 2 sheets)

Ind. Cl. : 32F<sub>2</sub>b

173326

Int. Cl.<sup>4</sup> : C07D 295/00

# PROCESS FOR THE PREPARATION OF NOVEL PIPERAZINE DERIVATIVES

Applicant : SOCIETE DE CONSEILS DE RECHERCHES ET D'APPLICATIONS SCIENTIFIQUES, A FRENCH COMPANY, OF 51/53 RUE DU DOCTEUR BLANCHE, 75016 PARIS, FRANCE.



Inventors : EDUARDO PIROTSKY, JEAN-JACQUES GODFROID, FRANCOISE, HEYMANS, PIERRE BRAQUET AND GEORGES DIVE.

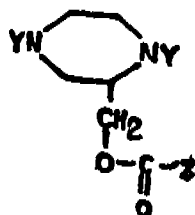
Application for Patent No. 876/Del/89 filed on 3 Oct. 1989.

(Convention Date 11 Oct 1988/88237763/U.K.)

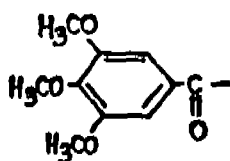
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

#### 4 Claims

A process for the preparation of novel piperazine derivatives having the general formula I



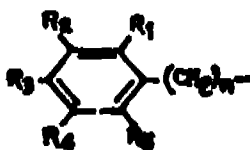
of the accompanying drawings wherein Y stands for a group of formula IV



and Z represents a substituent A or a substituent NH-A wherein A represents :

a straight or branched alkyl chain having from 1 to 17 carbon atoms;

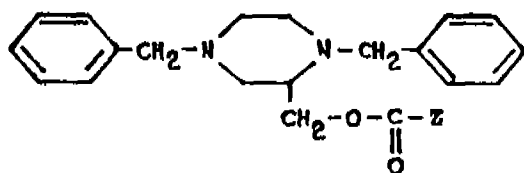
a cycloalkyl group having from 5 to 10 carbon atoms or a group of the general formula V



of the drawings wherein n is zero or an integer of from 1 to 5 and each of R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub> and R<sub>5</sub> independently represents a hydrogen, a chlorine or a bromine atom, a trifluoromethyl, a trifluoromethylthio or a trifluoromethoxy, a methyl or a methoxy group,

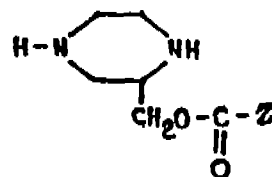
which comprises the steps of :

(a) reacting a compound of the formula A (N)<sub>m</sub>C (CD)<sub>n</sub> O wherein A has the meaning stated above and m and n are independently 0 or 1 with the proviso that when m is 1, n is 0 and when n is 1, m is 0 with N, N-dobenzyl 2-hydroxy-methyl piperazine to obtain the corresponding trisubstituted piperazine of formula III



wherein Z has the meanings stated above;

(b) hydrogenolizing the compound of formula II thus obtained in the presence of Pd/charcoal (in ethanol) leading to formation of the monosubstituted piperazine of formula III;



and

(c) reacting said monosubstituted piperazine of formula III with 3, 4, 5-trimethoxybenzoyl chloride, in benzene, in the presence of triethylamine at room temperature to provide the desired piperazine derivatives of the general formula I.

(Comp. Specn. 18 pages)

Drwgs 2 sheets)

Ind. Cl. : 32C & 77D.

173327

Int. Cl.<sup>4</sup> : A61K, 27/00 & C11B, 3/12.

#### A PROCESS FOR EXTRACTION OF NEEM OIL.

Applicant : RANJANA GUPTA, AN INDIAN NATIONAL OF 14A/10, WESTERN EXTENSION, PUSA ROAD, NEW DELHI-110 005, INDIA.

Inventor : RANJANA GUPTA.

Application No. 1012/DEL/89 filed on 3-11-89.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

#### Claims 6

A process for extraction of neem oil from neem seeds comprising in treating crushed neem seeds in an soxhlet solvent extraction system containing polar solvents of the kind as herein described at a temperature of 40—60°C to obtain an oil cake free from bitter and offensive odoriferous constituents, drying said oil cake and then subjecting the same to the step of solvent extraction using hexane as a solvent to obtain refined debitterized and deodorized neem oil.

(Comp. Specn. 10 pages)

Ind. Cl. : 77D.

173328

Int. Cl.<sup>4</sup> : C11B, 3/12.

#### A PROCESS FOR ISOLATION OF ACTIVE BITTER, AND ODORIFEROUS CONSTITUENTS FROM NEEM SEEDS.

Applicants : RANJANA GUPTA, AN INDIAN NATIONAL OF 14/A10, WESTERN EXTENSION, PUSA ROAD, NEW DELHI-110005, INDIA.

Inventor : RANJANA GUPTA.

Application for Patent No. 1014/DEL/89 filed on 3rd Nov., 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### Claims 5

A process for the isolation of active bitter and odoriferous constituents from neem seed which comprises in subjecting the crushed seed to a treatment in an aqueous system containing polar solvents to obtain an extract at a temperature of 40°C to 60°C, subjecting the extract to the step of distillation to obtain an amalgam containing active bitter and odoriferous constituents of the neem seed.

(Comp. Specn. 8 pages)

Ind. Cl. : 32E<sub>2</sub>(b) & 55E<sub>4</sub> 173329

Int. Cl.<sup>4</sup> : A 61K-31/43 & C07D-499/00.

# PROCESS FOR PREPARATION OF 2-CHLOROSULFINYL AZETIDINONES

Applicant : RANBAXY LABORATORIES LIMITED,  
19, NEHRU PLACE, NEW DELHI, INDIA.

Inventor(s) : JAG MOHAN KHANNA, NARESH  
KUMAR, YATENDRA KUMAR,  
KIRAN BALA.

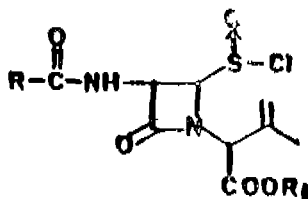
Application for Patent No. 1019/DEL/89 filed on 6th  
Nov., 1989.

Appropriate Office for Opposition Proceedings (Rule 4,  
Patents Rules, 1972) Patent Office Branch, New Delhi-  
110 005.

(Claims 7)

A process for preparing a 2-chlorosulfinylazetidin 4-ones  
of the formula II

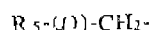
Formula II



wherein R is hydrogen, C<sub>1</sub>-C<sub>4</sub> alkyl, halomethyl or cyano-  
methyl or R is the group R<sub>3</sub> wherein R<sub>3</sub> is phenyl or phenyl  
substituted by C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, halo, protected  
hydroxy, nitro, cyano and trifluoromethyl; or R is a group of  
the formula X



wherein R<sub>4</sub> is t-butyl, 2, 2, 2 trichloroethyl, benzyl or substi-  
tuted benzyl; or R is a group of the formula IIb,

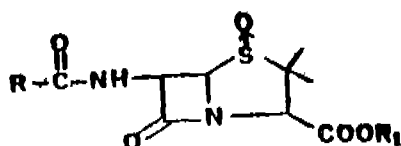


wherein R<sub>5</sub> is R<sub>3</sub> as defined above or 2 thienyl, 3 thienyl, 2  
furyl, 3 furyl or 1, 4 cyclohexadienyl and n is 0 or 1 or R is  
a substituted aryl alkyl group of the formula IIIc



wherein R<sub>0</sub> has the same meaning as R<sub>3</sub> defined above and  
W is protected hydroxy or protected amino; and R<sub>1</sub> is a  
carboxylic acid protecting group selected from the group  
consisting of C<sub>1</sub>-C<sub>4</sub> alkyl 2, 2, 2 trihalo alkyl, benzyl, substi-  
tuted benzyl, phenacyl, halo substituted phenacyl and benzhy-  
dryl, which comprises heating in an inert organic solvent  
such as described herein, a penicillin sulfoxide ester of the  
formula I

FORMULA I



at a temperature between 75°C and 140°C with a N-chloro-  
halogenting agent characterised in the said reaction as is  
being carried out in the presence of strongly basic ion ex-  
change resin cross linked with styrene divinyl benzene.

(Compl. Specn. 17 pages;

Drgs. 3 sheets).

Ind. Cl. : 55 E<sub>2</sub> [XIX(1)].

173330

Int. Cl.<sup>4</sup> : A61K 6/00.

# A PROCESS FOR PREPARING A STORAGE STABLE ORAL COMPOSITION.

Applicant : COLGATE-PALMOLIVE COMPANY, A  
DELAWARE CORPORATION, OF 300 PARK AVENUE,  
NEW YORK, NEW YORK 10022, UNITED STATES OF  
AMERICA.

Inventors : NURAN NABI, ABDUL GAFFAR, JOHN  
AFFLITTO, ORUM STRINGER, MICHA-  
EL PRINCIPLE, RICHARD S. ROBINSON,  
JEFFREY MILLER, CHIMPIRAMMA  
POTINI, MICHAEL ALLAN COLLINS,  
THERESA GABRIELLE SHACKIL.

Application for Patent No. 1225/DEL/89 filed on 21st  
Dec., 1989.

Appropriate Office for Opposition Proceedings (Rule 4,  
Patents Rules 1972) Patent Office Branch, New Delhi-  
110 005.

Claims 11

A process for preparing a storage stable oral composition  
having antiplaque and antibacterial properties contained in  
a container having solid polymeric material such as herein  
described in contact with said composition, which comprises  
mixing 0.2% to 1% by weight of a substantially water in-  
soluble non-cationic antibacterial agent such as herein de-  
scribed, more than 25% of which has been found to be lost  
on storage in said container, 0.01% to 2% by weight of a  
stabilizer such as a terpene or flavoring agent such as herein  
described which inhibits such loss and stabilizes said anti-  
plaque property in the presence of said solid polymeric  
material, optionally 0.5% to 4% of polyvinylmethyl ether  
maleic anhydride and/or 25 to 5,000 ppm of fluoride ion  
and/or an anticalculus amount of at least one polyphosphate,  
preferably a mixture of sodium and potassium pyrophosphate  
and conventional ingredients such as herein described.

(Comp. Specn. 32 pages; Drwgs 2 sheets)

# CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

The claim made by TOA NEKKEN CORP., in connection  
with Patent Application No. 172/MAS/91 (173320) has  
been allowed.

# PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undermentioned  
specification are available for sale from the patent office,  
Calcutta, and its branches at Bombay, Madras, and Delhi at  
two rupees per copy :-

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## PATENT SEALED ON 4-3-1994

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 171864 171877 171881 171882 171892 171896

CAL-14, MAS-13, BOM-06 &amp; DEL-07

\*Patent shall be deemed to be endorsed with the words  
 LICENCE OF RIGHT under Section 87 of the Patents Act,  
 1970 from the date of expiration of three years from the  
 date of sealing.

D-DRUG PATENT F-FOOD PATENT

## RENEWAL FEES PAID

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 171485 171543 171749 171911 171942

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165743 165746 165771 165779 165780 165790 165797  
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 165869 165882 165885 165890 165897 165900 165909  
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 166126 166128 166130 166140 166254 166176 166180  
 166181 166193 166207 166208 166209 166212

## REGISTRATION OF DESIGNS

The following designs have been registered. They are  
 not open to inspection for a period of two years from the  
 date of registration except as provided for in Section 50 of  
 the Designs Act, 1911.

The date shown in the each entry is the date of registra-  
 tion included in the entries.

Class 1. No. 165483. Polar Fan Industries Ltd. of Poddar  
 Point, 113, Park Street, 8th flr., Calcutta-700016,  
 W.B., India, Indian Company. "Disc for ceiling  
 fan motor body". March 30, 1993.

Class 1. No. 166635. Verman Sons, 21, Netaji Subhash  
 Marg, Darya Ganj, New Delhi-110002, India, In-  
 dian Partnership Firm. "Flash Light". Dec. 30,  
 1993.

Class 1. No. 165904. Indian Tools Co. S 180, Indl  
 Area, Jalandhar-144004, Punjab, India, Indian Part-  
 nership Firm. "Drilling Machine". July 20,  
 1993.

Class 3. No. 166064. Century Polymers of Marar Road,  
 P.O. Velpaya-680596, M. G. Kavu, Thrissur Dist.,  
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